

Appln No. 10/826,494
Amdt date August 31, 2005
Reply to Office action of June 3, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A diffuser-augmented wind-turbine assembly, the assembly having an diffuser outer-housing shell with a cylindrical portion rotatably supporting a rotor drum having an inner surface rigidly and solely supporting a plurality of centrally joined turbine blades, the rotor drum being in driving engagement with a rotatable electrical generator.

2. (Original) The assembly of claim 1, wherein the rotor-drum inner surface is flush with adjoining inner surfaces of the diffuser shell.

3. (Original) The assembly of claim 1, wherein the rotor drum and turbine blades are ingerally formed.

4. (Original) The assembly of claim 1, wherein the electrical generator comprises a cylindrical magnet assembly secured to an outer surface of the rotor drum to rotate therewith, and a cylindrical stator-coil assembly secured to an

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inner surface of the diffuser shell, and extending around and slightly spaced from the magnet assembly.

5. (Original) The assembly of claim 1, and further comprising space-apart ring bearings adjacent opposite ends of the rotor drum for rotatably supporting the drum within the diffuser shell.

6. (Original) The assembly of claim 1, and further comprising a plurality of inlet guide vanes secured within an inlet end of the diffuser shell upstream of the turbine blades.

7. (Withdrawn) The assembly of claim 1, wherein the electrical generator is drum shaped, and secured to the diffuser shell radially outwardly of the rotor drum, and further comprising a flexible belt engaged with the drum and generator.

8. (New) A diffuser-augmented wind-turbine assembly, the assembly having a diffuser outer-housing shell with an inner cylindrical portion, a rotor drum having inner and outer surfaces, the inner surface rigidly supporting a plurality of turbine blades, and bearing means positioned between the diffuser-shell inner cylindrical portion and the rotor-drum outer surface for rotatably supporting the rotor drum, the rotor drum being in driving engagement with a rotatable electrical generator.